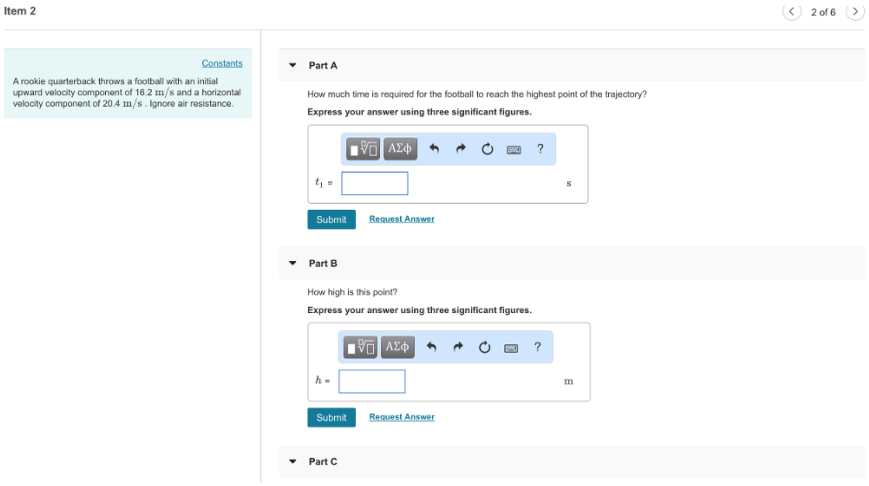
Question: Item 2 2of6 〉 ▼ Part A A rookie quarterback throws a footbal...



Item 2 — 2 of 6

Constants

A rookie quarterback throws a football with an initial upward velocity component of 16.2 m/s and a horizontal velocity component of 20.4 m/s . Ignore air resistance.

Part A

How much time is required for the football to reach the highest point of the trajectory?

Express your answer using three significant figures.

t_1 = s

Submit Request Answer

Part B

How high is this point?

Express your answer using three significant figures.

h = m

Submit Request Answer

Part C

Part C

How much time (after it is thrown) is required for the football to return to its original level?

Express your answer using three significant figures.

t_2 = s

Submit Request Answer

Part D

How does this compare with the time calculated in part (a).

Express your answer using three significant figures.

$\frac{t_2}{t_1}$ =

Submit Request Answer

Part E

How far has it traveled horizontally during this time?

Part E

How far has it traveled horizontally during this time?

Express your answer using three significant figures.

x = m

Submit Request Answer

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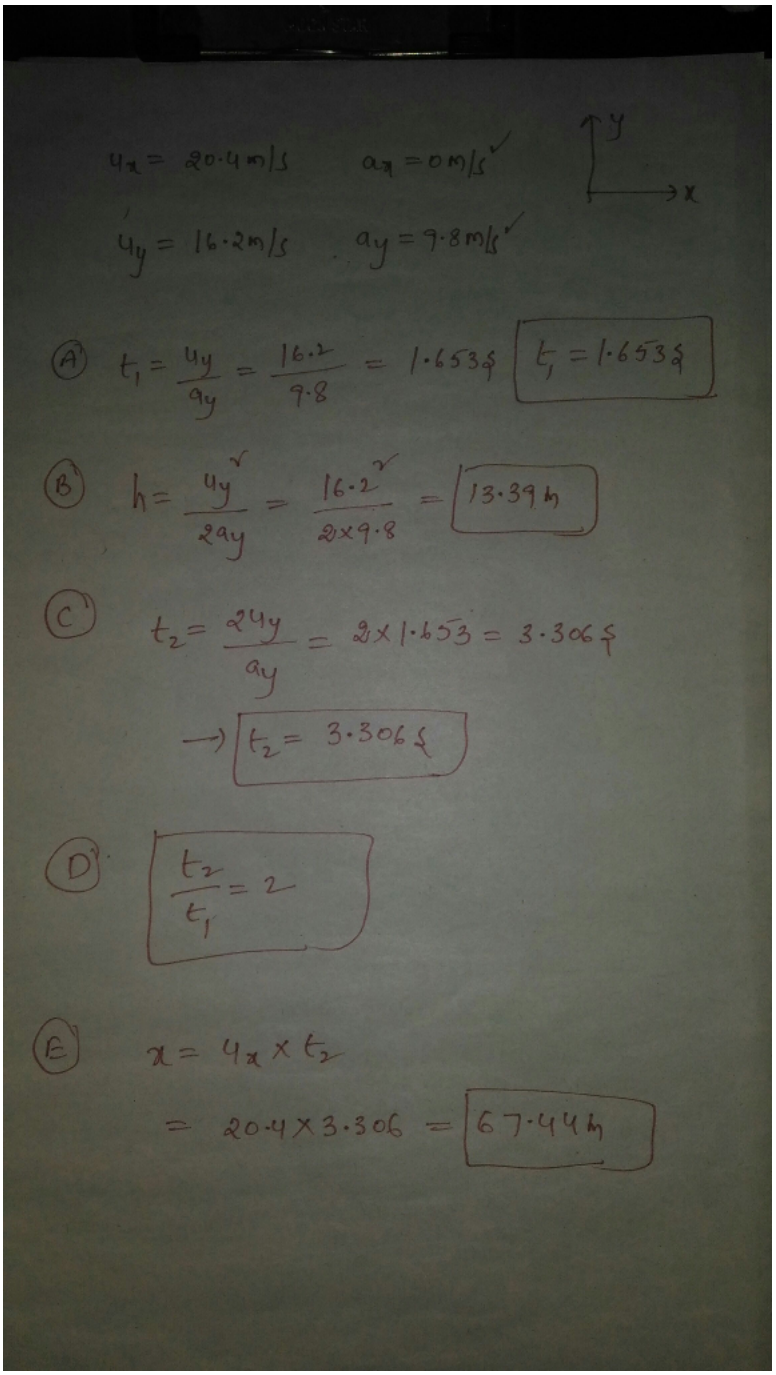
Expert Answer

Vijaykumar answered this
4,298 answers



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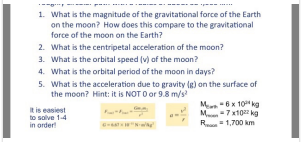
Practice with similar questions

Q: Constants A rookie quarterback throws a football with an initial upward velocity component of 16.6 m/s and a horizontal velocity component of 204 m/s Ignore air resistance Ho Ex PartA How much time is required for the football to reach the highest point of the trajectory? Express your answer using three significant figures. Submit Request Answer Part B How high is this point...

Up next for you in Physics

Please show work!



See answer

Which ball, dropped or thrown horizontally, (if either) has the greatest speed at the moment of impact? The dropped ball Both balls have

See answer

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Q: A rookie quarterback throws a football with an initial upward velocity component of 15.0 m/s and a horizontal velocity component of 21.0 m/s. Ignore air resistance Part C How much time latter it is thrown) is required for the football to return to its original level? Express your answer in seconds. 70 AED ? to - 2.3409 Submit Previous Answers Request Answer X Incorrect; Try Again:...

A: See answer

Q: KHomework 4: 2D Kinematics Exercise 3.12 Constants A rookie quarterback throws a football with an initial upward velocity component of 15.5 m/s and a horizontal velocity component of 21.9 m/s Ignore air resistance.

A: See answer 100% (4 ratings)

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